CLAIMS

- 1. Hydrodynamic torque converter with a pump impeller (2) that can be driven by a drive motor, by means of which a turbine rotor (3) can be driven, the rotor being connected with a drive input shaft of a transmission (4), and with a torque measurement device (7), characterized in that between the pump impeller (2) and the drive motor is arranged a clutch (8) which connects the drive motor to the pump impeller (2), and the turbine rotor (3) is connected to the torque measurement device (7).
- 2. Hydrodynamic torque converter according to claim 1, characterized in that the clutch (8) can be operated in a slipping condition.
- 3. Hydrodynamic torque converter according to claim 1, characterized in that an actuation condition of the clutch (8) is controlled or regulated as a function of the torque determined by the torque measurement device (7).
- 4. Hydrodynamic torque converter according to claim 1, characterized in that the torque measurement device (7) is fitted directly on or in the turbine rotor (3).
- 5. Hydrodynamic torque converter according to claim 1, characterized in that the torque measurement device (7) is fitted directly on or in a shaft (4) which is connected with the turbine rotor (3) and forms a drive input shaft for a transmission.
- 6. Hydrodynamic torque converter with a pump impeller (2) that can be driven by a drive motor, by means of which a turbine rotor (3) can be driven, which is connected to the drive input shaft (4) of a transmission, and with a torque measurement device (7), characterized in that between the turbine rotor (3) and the drive motor is arranged a clutch (5) which connects the drive motor to the turbine rotor (3), and the turbine rotor (3) is connected to the torque measurement device (7).
- 7. Hydrodynamic torque converter according to claim 6, characterized in that the clutch (5) can be operated in a slipping condition.

- 8. Hydrodynamic torque converter according to claim 6, characterized in that an actuation condition of the clutch (5) is controlled or regulated as a function of the torque determined by the torque measurement device (7).
- 9. Hydrodynamic torque converter according to claim 6, characterized in that the torque measurement device is fitted directly on or in the turbine rotor.
- 10. Hydrodynamic torque converter according to claim 6, characterized in that the torque measurement device (7) is fitted on a drive output shaft (4) which is connected with the turbine rotor.
- 11. Hydrodynamic torque converter according to claims 1 or 6, characterized in that the torque measurement device is made as a magnetic torque measurement device of the type described in WO 01/96826 A2.